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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/466,369	12/15/1999	SHARAT SINGH	ACBI.031.01U	1087
22918	7590 06/27/2003			
PERKINS COIE LLP			EXAMINER	
P.O. BOX 2168 MENLO PARK, CA 94026			SISSON, BR	ADLEY L
			ART UNIT	PAPER NUMBER
			1634	
			DATE MAILED: 06/27/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summary	09/466,369	SINGH, SHARAT			
omoo nousin cummary	Examiner	Art Unit			
The MAILING DATE of this communication app	Bradley L. Sisson	heet with the correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, howeve y within the statutory minim will apply and will expire SIX cause the application to b	ur, may a reply be timely filed um of thirty (30) days will be considered timely. ((6) MONTHS from the mailing date of this communication. ecome ABANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on <u>07 F</u>	-ebruary 2003 .	•			
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-fina	al.			
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims					
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application					
		ion			
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirem	ent.			
Application Papers					
9)☐ The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accept	oted or b) objected	I to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on	_ , ,,	•			
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120		1.0.0. \$ 440(a) (d) ar (f)			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document	s have heen receiv	ed			
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bu * See the attached detailed Office action for a list	reau (PCT Rule 17	.2(a)).			
14)⊠ Acknowledgment is made of a claim for domesti	c priority under 35	U.S.C. § 119(e) (to a provisional application).			
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 	• •				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 N	nterview Summary (PTO-413) Paper No(s) lotice of Informal Patent Application (PTO-152) ther:			

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DETAILED ACTION

Location of Application

1. The location of the subject application has changed. The subject application is now located in Workgroup 1630, Art Unit 1634, and has been docketed to Primary Examiner Bradley L. Sisson.

Continued Prosecution Application

- 2. The request filed on 07 February 2003 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/466,369 is acceptable and a CPA has been established. An action on the CPA follows.
- 3. The CPA Transmittal was found to be associated with what appears to be a substitute specification, including claims, abstract, and drawings. These documents have not been entered as the transmittal was not found to contain a request for entry, i.e., a preliminary amendments was not made.

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and a statement that it does not introduce any new matter, the substitute specification has not been entered.

4. An examination based on the specification and claims immediately prior to the filing of the CPA follows.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Still in view of Chenchik et al., Benson et al., Rothman et al., and Heller.
- 8. Still discloses the use of labeled solid supports, or beads or particles, to which are attached chemical moieties. The type of label attached thereto encodes the chemical composition bound to the support. As set forth at page 157, right column, second paragraph: "Thus, while a

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library member itself may not be analyzable, it is possible to associate certain unique chemical markers or *tags* with that library member to specify identity."

9. Still does not disclose the use of lanthanides as labels or the combined use of lanthanides with fluorescent dyes or of performing multiplexing assays.

- 10. Chenchik et al., discloses performing multiplex assays with an array format and the use of a variety of dyes, including lanthanides (see columns 9 and 10).
- 11. Benson et al., teaches the use of multiple color fluorophores in the context of an automated DNA sequencing method wherein each color is representative of a specific nucleotide base. The concept of a multiplex reaction is discussed and that the four-color label approach to sequencing is conducted in a single tube (see column 1).
- 12. Benson et al., do not disclose using lanthanides as labels or in combination with fluorophores.
- 13. Rothman et al., column 10, fourth and fifth paragraphs, discloses the use of fluorophores in a variety of assay formats, stating: "The main types of fluorophores currently used as labels in such assays¹ are fluorescein, rhodamine, umbelliferone, and lanthanide chelates and the derivatives of these compounds." At lines 46-49 the wavelengths the above-identified fluorescent compounds is provided.
- 14. Rothman et al., do not suggest the use of both fluorescent dyes with lanthanide dyes.
- 15. Heller, column 5, second paragraph, like Rothman et al., speak in terms of the equivalency fluorescent compounds, identifying a variety of fluorescent compounds as well as

¹ Rothman *et al.*, column 10, lines 25-27, identifies the assays as being "immunoassays and other analytical assays involving binding."

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lanthanide dyes. Also suggested in said paragraph is the use of "two or more fluorophores per

probe."

16. In view of the totality of the prior art of record, it would have been obvious to one of

ordinary skill in the art at the time the invention was made to have used lanthanide dyes as a

detectable label in multiplex assays as the prior art clearly teaches the use of multiple

fluorophores in a multiplex assay and the equivalency of lanthanide dyes to other known

fluorophores. Said ordinary artisan would have also been motivated to have optionally combined

more than one dye per solid support and that the different dyes need not all be lanthanides but

could reasonable contain any of the known fluorophores identified in the art, including

fluorescent dyes. Said ordinary artisan would have also been motivated, on the basis of

commercial expediency and convenience, to have developed kits comprised of such particles,

dyes, as well as labeled particles.

17. For the above reasons and in the absence of convincing evidence to the contrary, the

invention of claims 1-18 is suggested by the prior art of record.

Conclusion

18. This is a CPA of applicant's earlier Application No. 09/466,369. All claims are drawn to

the same invention claimed in the earlier application and could have been finally rejected on the

grounds and art of record in the next Office action if they had been entered in the earlier

application. Accordingly, THIS ACTION IS MADE FINAL even though it is a first action in

this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set

forth in 37 CFR 1.136(a).

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- 19. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
- 20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley L. Sisson whose telephone number is (703) 308-3978. The examiner can normally be reached on 6:30 a.m. to 5 p.m., Monday through Thursday.
- 21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (703) 308-1119. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9307 for After Final communications.
- 22. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Bradley L. Sisson Primary Examiner

B. L. Sina

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BLS June 25, 2003